

*ARGYRANTHEMUM FRUTESCENS PLANT NAMED 'ARGYDOWITIS'*

**Latin name of the genus and species of the plant claimed**

5 *Argyranthemum frutescens*

**Varietal Denomination**

'Argydowitis'

10 **Background of the invention**

The present invention relates to a new and distinct cultivar of Marguerite Daisy plant, botanically known as *Argyranthemum frutescens* and referred to by the cultivar name 'Argydowitis'. The new cultivar is a product of a planned breeding program conducted by the inventor in Enkhuizen, The Netherlands. The objective of the breeding program was to develop a more vigorous plant that flowers early with a good field performance during the whole summer.

**Description of the drawing**

20 This new Marguerite Daisy plant is illustrated by the accompanying photographic drawing which shows blooms, buds and foliage of the plant in full color, the color shown being as true as can be reasonably obtained by conventional photographic procedures. The depicted plant is of the same age as disclosed in the botanical description.

25 **Description of the new cultivar**

The following detailed descriptions set forth the distinctive characteristics of this new Marguerite Daisy plant. The data which defines these characteristics were collected from asexual reproductions carried out in Enkhuizen, The Netherlands. The plant history was taken on 20 weeks old plants, grown in the greenhouses in Enkhuizen, The Netherlands with day temperatures ranging from 12 to 18 degree C, and night temperatures ranging from 10 to 14 degrees Celsius.

Color references are primarily to the RHS Colour Chart of the Royal Horticultural Society of London where general terms of ordinary dictionary significance are used.

### **The Plant**

- 5 Classification - Botanical : *Argyranthemum frutescens* 'Argydowitis'

### **Parentage**

- Female parent : proprietary seedling selection of *Argyranthemum frutescens*, identified as number 'A 40-1' (unpatented).  
 10 Breederscode of the new plant is 'C 45-6'.  
 Male parent : unidentified selection of *Argyranthemum frutescens*

### **Propagation**

- Type cuttings : Terminal cuttings  
 15 Time to initiate roots : 7 to 10 days at air temperature of 21 degree C.  
 Time to develop roots : 7 to 14 days at air temperature of 18 degree C.

### **Plant Description**

- Growth habit : upright  
 20 Plant height : 25-28 cm  
 Vigor : Vigorous  
 Spreading area of plant : 25-30 cm  
 Strength : Very good  
 Branching Character : Freely branching, plants do not require pinching  
 25 Crop time : About 10 weeks are required to produce a finished flowering plant in a 10.5 cm container from a good developed cutting

### **The Stem**

- 30 Diameter : 4 mm

	Shape	:	round, bit grooved
	Anthocyan pigmentation	:	absent
	Length of internode	:	1.5-2.5 cm
	Pubescence	:	absent
5	Color	:	143C

### **The Foliage**

	Arrangement	:	alternate
	Shape of leaf	:	bipinnatisect
10	Leaf apex	:	acute
	Leaf base	:	attenuate
	Texture	:	thick glabrous smooth
	Length	:	6 – 7 cm
	Width	:	3 – 3.5 cm
15	Depth of incision = margin	:	lacinate
	Color relating to both juvenile and mature leaves - Upper side	:	133A-139A
	- Lower side	:	138B
	Pubescens	:	absent
20	Petiole	:	absent
	Venation -shape	:	pinnate
	-color	:	138A

### **The Flower Bud**

25	Peduncle	Length	:	6 -10 cm
		Strength	:	strong
		Texture:	:	smooth
		Color	:	144A
	Size bud	- Diameter	:	4-7 mm
30		- Length	:	4-5 mm

Shape flower bud : flattened, round  
 Color bud : 163C

### **Inflorescence**

5 Diameter : 4.2 –5.0 cm  
 Form : Capitula with 2 series of ray florets and 10-15 series of  
 grown disc florets, which give the semi double impression  
 Receptacle height : 0.5 cm  
 Involucre/phyllaries : 3 series of 5 bracts, tightly to receptacle  
 10 Shape : elliptic, with broad apex  
 Margin : entire  
 Length : 2-3 mm  
 Color : upper: 143A  
 Lower: 143A  
 15 Fragrance : absent  
 Quantity of inflorescences : ±60-100 flowers/plant depending on age and growing  
 conditions  
 Flowering period : April till October in N-W Europe, plants flower  
 continuously during this period  
 20 Lastingness of blooms : 7-10 days

### **Ray Florets**

Shape of ray florets : ligulate  
 Apex : rounded, little incised  
 25 Base : cordate  
 Margin : entire  
 Color : 155C  
 No. of ray florets per inflor. : 22-26  
 Size of the ray floret - Length : 1.4 – 1.7 cm  
 30 - Width : 0.4 – 0.7 cm

Texture : smooth

### **Disc Florets**

- 5    Shape of disc florets : tubular (trumpet shape) with 5 lobes  
      Color : 12A  
      Diameter of disc floret - young : 1 mm  
    - old : 3 mm  
      Number of disc florets/flower :  $\pm 80$

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### **Androecium**

- Anther color : yellow 15A  
 Pollen color : yellow 15A  
 Amount of pollen : only in disc florets little pollen

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### **Gynoecium**

#### **Gynoecium:**

- Pistil number : one per floret (ray florets only)  
 Pistil length : about 2mm  
 20    Style color : yellow green 144D  
      Style length : about 2mm  
      Stigma color : yellow orange 14A  
      Stigma shape : bilobed  
      Ovary color : 144C

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### **Disease resistance**

- : No susceptibility nor resistance to fungal, bacterial or viral pathogens has been noted. Material is free of virus and Chrysanthemum stunt viroid (CSVd)

- 30    **Seed** : seed production is not observed

**Physiological and ecological characteristics:**

- 5 Comparison with Sugar Buttons and SG30032 on characteristics in which the new plant differs:

	<b>'Sugar Button' (PP 11,980)</b>	<b>'Argydowitis'</b>
Plant height	19-22 cm	25-28 cm
Plant habit	compact	upright
Flower diameter	3.0-3.5	4.2 – 5.0 cm
10 Foliage color	137 A - 137B	133A - 139A

No description on parental lines available. Material no longer exists as such.